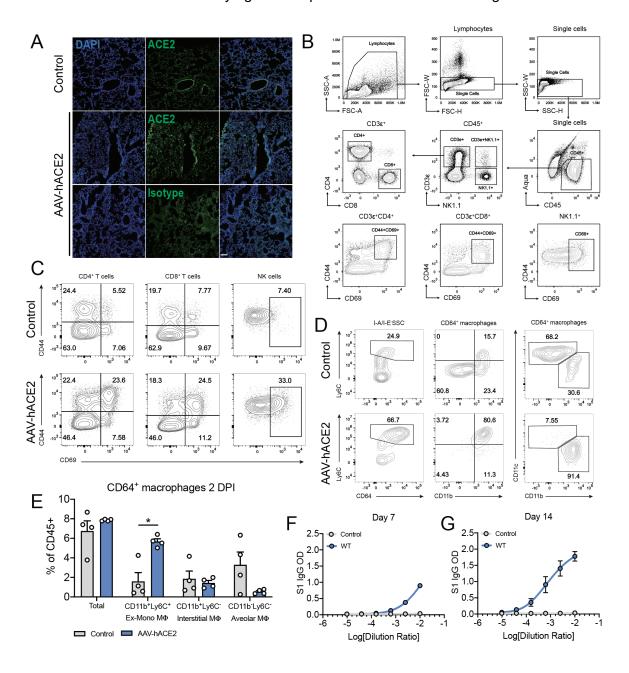
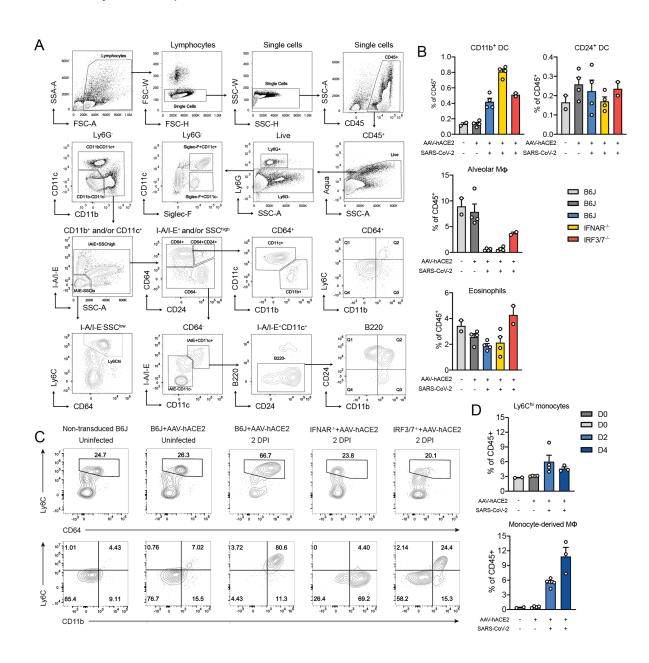
Extended Data s1-s3

Extended Data Fig 1. AAV-hACE2 infection makes WT mice susceptible to SARS-CoV-2.

a, Immunofluorescence staining of ACE2 in mice infected with AAV-hACE2, 20 days post infection. **b,** Flow cytometry gating strategy for figures **1g, 3g-i,** extended data fig **1c,** and extended data fig **3a-c. c,** Representative flow cytometry plots for figure 1g T cells and NK cells. **d,** Representative flow cytometry plots for figure **1g** myeloid cells. **e,** Different macrophage populations in the lungs of SARS-CoV-2 infected mice two days post infection by flow cytometry. **f,** Serum of mice were collected 7 days after infection with SARS-CoV-2 and limiting dilutions were made to measure reactivity against S1 protein of SARS-CoV-2 and limiting dilutions were made to measure reactivity against S1 protein of SARS-CoV-2 using ELISA. **g,**



Extended Data Fig 2. Myeloid cell infiltration in SARS-CoV-2 infected mice. a, Flow cytometry gating strategy for figures **1g**, **3d-f**, and extended data fig **1b**, **1e** and extended data fig. **2b-d. b**, Relative percentage of different cell populations in different knockout mice infected with SARS-CoV-2 two days post infection. **c**, Representative flow cytometry plots for figure **3d** and **e**. **d**, Relative percentage of myeloid cell populations in wildtype mice infected with AAV-hACE2 at days 2 and 4 post SARS-CoV-2 infection.



Extended Data Fig 3. T cell and NK cell infiltration in SARS-CoV-2 infected mice. a,

Representative flow cytometry plots for figure **3g-i**. **b**, Relative percentage of different lymphoid cell populations in different knockout mice infected with SARS-CoV-2 two days post infection. **c**, Relative percentage of lymphoid cell populations in wildtype mice infected with AAV-hACE2 at days 2 and 4 post SARS-CoV-2 infection.

